

Comparisons of Job Characteristics

Focus Occupation: Industrial Machinery Mechanics (49-9041)

Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

| | |
|----|--|
| << | Focus occupation element is much lower |
| < | Focus occupation element is lower |
| 0 | Focus occupation element is at a similar level |
| > | Focus occupation element is at a higher level |
| >> | Focus occupation element is at a much higher level |

Knowledge

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Industrial Machinery Mechanics (49-9041)

Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

| Associated Occupation's Key Knowledge Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation | |
|--|---------------------------------|--------------------------------|---------------------------|--------------------------------|--|
| Computers and Electronics | 8.4 | 17.5 | 7.6 | << | Extensive education and/or training may be required |
| Mechanical | 6.8 | 16.4 | 20.1 | >> | Current knowledge level is likely more than sufficient |
| Engineering and Technology | 5.7 | 11.7 | 13.0 | > | Current knowledge level is likely sufficient |
| Design | 5.2 | 9.6 | 11.5 | > | Current knowledge level is likely sufficient |
| Telecommunications | 3.9 | 6.9 | 4.2 | << | Extensive education and/or training may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 89

Focus Occupation: Industrial Machinery Mechanics (49-9041)

Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

| Associated Occupation's Key Skills Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation | |
|---|---------------------------------|--------------------------------|---------------------------|--------------------------------|--|
| Quality Control Analysis | 5.9 | 13.3 | 12.3 | 0 | Current skill level may be sufficient |
| Repairing | 3.4 | 13.3 | 15.6 | > | Skill level is likely sufficient |
| Operation Monitoring | 6.6 | 12.6 | 14.2 | > | Skill level is likely sufficient |
| Troubleshooting | 4.5 | 12.0 | 13.6 | > | Skill level is likely sufficient |
| Equipment Maintenance | 3.5 | 11.1 | 14.6 | >> | Skill level is likely more than sufficient |
| Equipment Selection | 3.3 | 10.5 | 9.8 | 0 | Current skill level may be sufficient |
| Installation | 1.7 | 9.3 | 6.4 | << | Extensive development of skills in this area may be required |

| | | | | | |
|-------------------|-----|-----|-----|---|--------------------------------------|
| Technology Design | 2.6 | 6.3 | 5.2 | < | A higher skill level may be required |
|-------------------|-----|-----|-----|---|--------------------------------------|

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Abilities | | Similarity of Focus Occupation to Associated Occupation: 75 | | | |
|--|---------------------------------|---|---------------------------|--------------------------------|--|
| Focus Occupation: Industrial Machinery Mechanics (49-9041) Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094) | | | | | |
| Associated Occupation's Key Abilities Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation | |
| Finger Dexterity | 7.6 | 12.9 | 11.9 | 0 | Current ability level may be sufficient |
| Category Flexibility | 9.0 | 11.9 | 7.9 | << | Extensive improvement in abilities may be required |
| Manual Dexterity | 6.5 | 11.2 | 12.6 | > | Current ability level is likely sufficient |
| Flexibility of Closure | 7.8 | 11.0 | 8.9 | < | Some improvement in abilities may be required |
| Perceptual Speed | 7.4 | 10.7 | 9.1 | < | Some improvement in abilities may be required |
| Visual Color Discrimination | 6.4 | 10.6 | 10.6 | 0 | Current ability level may be sufficient |
| Hearing Sensitivity | 5.6 | 9.3 | 12.1 | >> | Current ability level is likely more than sufficient |
| Speed of Closure | 5.9 | 8.8 | 8.2 | 0 | Current ability level may be sufficient |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Activities that Both Occupations Have in Common | | Similarity of Focus Occupation to Associated Occupation: 87 |
|--|-------------------------|---|
| Focus Occupation: Industrial Machinery Mechanics (49-9041) Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094) | | |
| Work Activities | Exclusivity of Activity | |
| Analyze operation of malfunctioning electrical or electronic equipment | 68 | |
| Calibrate or adjust electronic equipment or instruments to specification | 67 | |
| Determine installation, service, or repair needed | 58 | |
| Fabricate, assemble, or disassemble manufactured products by hand | 11 | |
| Install electrical fixtures or components | 71 | |
| Install electronic equipment, components, or systems | 62 | |
| Install electronic power, communication, control, or security equipment or systems | 76 | |
| Install or replace meters, regulators, or related measuring or control devices | 66 | |
| Install/connect electrical equipment to power circuit | 57 | |
| Maintain or repair industrial or related equipment/machinery | 39 | |
| Perform safety inspections in industrial, manufacturing or repair setting | 32 | |
| Read blueprints | 10 | |
| Read schematics | 34 | |

| | |
|---|----|
| Read technical drawings | 7 |
| Read work order, instructions, formulas, or processing charts | 9 |
| Repair computer controlled manufacturing systems | 95 |
| Repair or adjust measuring or control devices | 71 |
| Repair or replace electrical wiring, circuits, fixtures, or equipment | 49 |
| Replace electronic components | 63 |
| Solder electrical or electronic connections or components | 55 |
| Test electrical/electronic wiring, equipment, systems or fixtures | 54 |
| Test electronic or electrical circuit connections | 66 |
| Understand service or repair manuals | 40 |
| Understand technical operating, service or repair manuals | 6 |
| Use electrical or electronic test devices or equipment | 40 |
| Use electronic calibration devices | 68 |
| Use hand or power tools | 2 |
| Use soldering equipment | 44 |

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 77

Focus Occupation: Industrial Machinery Mechanics (49-9041)

Associated Occupation: Electrical and Electronics Repairers, Commercial and Industrial Equipment (49-2094)

| Tools and Technologies | Exclusivity |
|---|-------------|
| Aerial lifts | 13 |
| Business function specific software | 1 |
| Compressors | 9 |
| Computer printers | 2 |
| Computers | 1 |
| Content authoring and editing software | 1 |
| Cutting and crimping and punching tools | 3 |
| Data management and query software | 1 |
| Electrical measuring and testing equipment | 7 |
| Forming tools | 2 |
| Holding and clamping tools | 3 |
| Indicating and recording instruments | 2 |
| Industry specific software | 1 |
| Integrated circuits | 18 |
| Ladders and scaffolding | 6 |
| Length and thickness and distance measuring instruments | 2 |
| Lifting equipment and accessories | 3 |
| Machine tools | 7 |
| Measuring and layout tools | 3 |
| Metal bending and forming machinery | 17 |
| Pneumatic tools | 8 |

| | |
|--|----|
| Power tools | 2 |
| Prying and bending tools | 10 |
| Rough and finishing tools | 5 |
| Soldering and brazing and welding machinery and supplies | 6 |
| Tool attachments and accessories | 12 |
| Transportation related equipment and instruments | 29 |
| Wrenches and drivers | 2 |

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.